

**RECENT DOCTORAL DISSERTATIONS  
OF INTEREST TO ETHNOBIOLOGISTS:  
FALL 1991-FALL 1992**

TERENCE E. HAYS

*Department of Anthropology and Geography  
Rhode Island College  
Providence, RI 02908*

and

JOSEPH E. LAFERRIÈRE

*Arnold Arboretum of Harvard University  
22 Divinity Avenue  
Cambridge, MA 02138*

This is the tenth in an annual series of bibliographies listing selected dissertations drawn from the pages of Dissertation Abstracts (D.A.). All listings were made by scanning the titles and abstracts published in D.A. and making subjective decisions as to which ones might be relevant to work in ethnobiology or related disciplines such as ecological anthropology and economic botany.

Dissertations categorized in D.A. under Agricultural Economics, Agriculture, American Studies, Anthropology, Biology, Botany, Chemistry, Ecology, Folklore, Geography, Health Science, Home Economics, Language, Linguistics, Paleoecology, Physical Geography, Sociology, and Zoology were considered for inclusion in the list. An attempt was made to be as inclusive as possible, but some dissertations may have been overlooked. Comments and suggestions would be welcome for items to include in next year's edition.

Dates covered by the present paper include: Volume A (Humanities and Social Sciences): September 1991-August 1992; Volume B (Sciences and Engineering): September 1991-August 1992; Volume C (European Dissertations): Fall 1991-Summer 1992. Note that these are the dates for the issues of D.A. in which the abstracts appear, rather than the dates of acceptance of the dissertations themselves.

The dissertations are listed below alphabetically by author, along with the year of acceptance, title, institution, length, adviser or major professor, number(s) of the page(s) in D.A. on which the abstract may be found, University Microfilms order number, and the ISBN number when this information was included.

Most of the dissertations accepted at institutions in the United States, and some of those from Australia, Canada, South Africa, and the United Kingdom may be obtained from University Microfilms International, P.O. Box 1764, Ann Arbor, MI 48106-1346, either on microfilm or published by microfilm xerography. Quality of printed matter is generally excellent, but that of figures and photographs varies with the quality of the original. Current prices may be obtained by calling 800-521-3042; 313-761-4700 from Alaska, Hawaii, or Michigan; or 800-343-5299 from Canada. Further information and current prices, as well as information regarding

how to order dissertations listed above with no UMI order number, may be obtained from UMI Dissertations Information Service, 300 North Zeeb Road, Ann Arbor, MI 48106-1346, USA.

RESUMEN.—En este bibliografía se incluyen disertaciones recientes de interés a los etnobiólogos. Por cada uno se da el número de la página donde se halla el resumen en Dissertation Abstracts (D.A.), y el número de encargar un ejemplar de la disertación de University Microfilm International, P.O. Box 1764, Ann Arbor, MI 48106-1346 USA (teléfono: 313-761-4700 o 800-521-3042; desde Canada 800-343-5299).

RÉSUMÉ.—Cette bibliographie comprend quelques dissertations recentes d'intérêt aux ethnobiologistes. Chez chaque-une on donne le numéro de la page où se trouve le résumé dans Dissertation Abstracts (D.A.), et le numéro de commander un exemplaire de la dissertation de University Microfilm International, P.O. Box 1764, Ann Arbor, MI 48106-1346 USA (telephone: 313-761-4700 ou 800-521-3042; de Canada 800-343-5299).

- Adeetuk, Thomas Akanpasagi. 1991. Land tenure and food production in northern Ghana: 1900-1985. University of Wisconsin-Madison, 215 pp. D.A. 52(7):3507-B. Order no. DA9128892.
- AL-Duleimi, Saadoon J.F. 1990. An analysis of factors that influence adoption of improved agricultural practices among Iraqi farmers. University of Keele (United Kingdom), 340 pp. D.A. 53(1):196-197-A. Order no. BRDX95704.
- Asfaw, Zemedede. 1990. The barley of Ethiopia: A focus on the infraspecific taxa. Uppsala Universitet (Sweden), 33 pp. ISBN: 91-554-2454-6. D.A. 53(2):235-C.
- Baied, Carlos Alberto. 1991. Late-Quaternary environments and human occupation of the south-central Andes. University of Colorado at Boulder, 151 pp. Directors: David L. Green; Vera Markgraf. D.A. 53(2):537-A. Order no. DA9220391.
- Baldé, Mamadou Aliou. 1990. Biological and phytochemical investigations on three plants widely used in Guinean traditional medicine [*Pavetta owariensis*, *Borreria verticillata*, and *Harrisonia abyssinica*]. Universitaire Instelling Antwerpen (Belgium), 418 pp. D.A. 52(5):2383-B. Order no. DA9129659.
- Batmanian, Garo Joseph. 1990. Reforestation of degraded pastures in the Brazilian Amazon: Effect of site preparation on phosphorus availability in the soil. University of Georgia, 150 pp. D.A. 52(4):1823-B. Order no. DA9117276.
- Baum, David Alastair. 1991. The pollination and floral biology of *Adansonia* (Bombaceae): A phylogenetic approach. Washington University, 421 pp. D.A. 52(10):5057-B. Order no. DA9209159.
- Beavis, John. 1990. The effects of land use and burial on the amino acid composition of soils. Volumes I and II. University of Reading (United Kingdom), 676 pp. D.A. 52(6):2187-A. Order no. BRDX93624.
- Beck, Hans Troster. 1991. The taxonomy and economic botany of the cultivated guaraná and its wild relatives and the generic limits within the Paullinieae (Sapindaceae). Volumes I and II. City University of New York, 551 pp. D.A. 52(9):4550-B. Order no. DA9207049.

- Bellquist, Julia Bonner. 1991. Ecological etymology: The history of the Germanic carnivore names in their archaeological, ecological, and linguistic setting. University of Texas at Austin, 472 pp. Supervisor: Edgar C. Polome. D.A. 52(12):4312-A. Order no. DA9212486.
- Bermawie, Nurliani. 1990. Isozymic variability and barriers to hybridisation between *Capsicum chacoense* and two purple-flowered species (*Capsicum pubescens* and *Capsicum tovarii*). University of Reading (U.K.), 273 pp. D.A. 52(4):1814-B. Order no. BRDX92874.
- Bian, Ling. 1991. Effects of spatial scale on estimating the relationship between vegetation and topography in a mountainous environment. University of North Carolina at Chapel Hill, 213 pp. Director: Stephen J. Walsh. D.A. 52(10):3692-A. Order no. DA9207935.
- Bjorklund, Jeffrey Allen. 1991. Studies on the biosynthesis of cocaine and related alkaloids in *Erythroxylum coca*. University of Minnesota, 261 pp. D.A. 52(3):1431-B. Order no. DA9125793.
- Bowen, Jonathan Emerson. 1992. The late prehistory of northwestern Ohio. Ohio State University, 164 pp. Adviser: Richard W. Yerkes. D.A. 53(2):537-A. Order no. DA9218957.
- Brough, Susan Helen. 1991. The nutritional evaluation of cassava (*Manihot esculenta* Cranz). University of Nottingham (U.K.), 247 pp. D.A. 52(9):4535-B. Order no. BRD-94381.
- Brown, N.D. 1990. Dipterocarp regeneration in tropical rain forest gaps of different sizes. University of Oxford (U.K.), 184 pp. D.A. 52(8):3971-B. Order no. BRD-94146.
- Browne, B.J. 1989. The environmental history of Washing Lough, Kilrea, Co. Derry, Northern Ireland. University of Ulster (Northern Ireland), 249 pp. D.A. 52(10):5171-5172-B. Order no. BRDX94802.
- Buhion, Caroline J. 1991. Characterization and conservation of waterlogged archaeological wood. Clemson University, 258 pp. D.A. 52(12):6171-B. Order no. DA9213073.
- Burford, Mark Derek. 1990. Chemotaxonomic study of feverfew (*Chrysanthemum parthenium*). University of Technology, Loughborough (U.K.), 272 pp. D.A. 52(1):277-B. Order no. BRDX95690.
- Burjachs i Casas, Francesc. 1990. Palinologia dels dòlmens de l'alt empordà i dels dipòsits quaternaris de la Cova de l'Abreda (Serinyà, Pla de l'Estany) i del Pla de l'Estany (Olot, Garrotxa): Evolució del paisatge vegetal i del clima des de fa més de 140,000 anys al N.E. de la Península Ibèrica [Palynology of dolmens of the Alt Empordà of the quaternary deposits of the Cova de l'Arbreda (Serinyà, Pla de l'Estany) and of the Pla de l'Estany (Olot, Garrotxa): Evolution of the vegetation and climate from over 140,000 years ago in the northeastern part of the Iberian Peninsula.] (Dissertation in Catalan.) Universitat Autònoma de Barcelona (Spain). ISBN: 84-7488-783-6. D.A. 52(4):561-C.
- Castro, Vilma. 1991. The microclimate of corn and bean cropping systems: Its relationship with *Dalbulus maidis*, some aphids, and the diseases they transmit. University of Illinois at Urbana-Champaign, 124 pp. Adviser: Scott A. Isard. D.A. 52(3):1034-A. Order no. DA9124388.

- Charman, Daniel John. 1990. Origins and development of the Flow Country blanket mire, northern Scotland, with particular reference to patterned fens. University of Southampton (U.K.), 437 pp. D.A. 52(8):3998-B. Order no. BRDX94050.
- Claeson, Per. 1990. Pharmacognotic studies of scented myrrh (*Commiphora guidotti*) with emphasis on the biological activities of the isolated sesquiterpene T-cadinol. Uppsala Universitet (Sweden), 46 pp. ISBN: 91-554-2653-0. D.A. 53(2):308-309-C.
- Cole, Roy. 1991. Changes in drought-coping strategies in the Segou region of Mali. Michigan State University, 279 pp. Chairperson: Gary Manson. D.A. 53(1):258-A. Order no. DA9216291.
- Conard, Nicholas John. 1990. Tönschesberg and its position in the Paleolithic prehistory of northern Europe. Yale University, 358 pp. D.A. 52(3):974-A. Order no. DA9122271.
- Cruz, Maria L. 1991. Appropriate technology and shrimp mariculture development in Mexico. Rutgers The State University of New Jersey-New Brunswick, 320 pp. Director: Bonnie J. McCay. D.A. 52(12):4383-4384-A. Order no. DA9213956.
- Cuervo, Alfredo Carabof. 1990. Chemical studies on steroidal sapogenin-producing plants of Venezuela. Council for National Academic Awards (U.K.), 164 pp. D.A. 52(3):1366-B. Order no. BRDX92193.
- Cylke, Frank Kurt, Jr. 1991. The environmental social movement: Urban and rural differentials. University of Delaware, 325 pp. Professor in charge: Frank R. Scarpitti. D.A. 52(9):3435-A. Order no. DA9206384.
- Deith, Margaret Redfern. 1982. [sic] Seasonality from shells: Growth-line studies of the cockle, *Cerastoderma edule* L., and the limpet, *Patella vulgata* L., as a guide to prehistoric shell-collecting activities. University of Sheffield (U.K.), 329 pp. D.A. 52(9):3326-A. Order no. BRDX94502.
- Dentali, Steven John. 1991. Potential antiinfective agents from *Eriodictyon angustifolium* Nutt. and *Salvia apiana* Jeps. University of Arizona, 133 pp. D.A. 52(7):3616-B. Order no. DA9136843.
- Dijoux, Marie-Genevieve. 1990. Contribution a l'etude du genre *Albizzia*. [Contributions to the study of the genus *Albizzia*.] Dissertation and abstract in French.) Universite de Dijon (France), 75 pp. D.A. 52(3):432-C.
- Doherty, Deborah Ann. 1987. Maasai pastoral potential: A study of ranching in Narok District, Kenya. McGill University (Canada), 512 pp. ISBN: 0-315-64098-7. D.A. 53(1):198-A. Order no. DANN64098.
- Dumont, Clayton Wayne, Jr. 1991. Loggers and radical environmentalists: Cultural struggles in timber country. University of Oregon, 151 pp. Adviser: Benton Johnson. D.A. 52(9):3435-A. Order no. DA9205800.
- Earwood, Caroline Mary Emmett. 1990. Domestic wooden artifacts from prehistoric and early historic periods in Britain and Ireland: Their manufacture and use. Volumes I and II. University of Exeter (U.K.), 797 pp. D.A. 52(3):974-975-A. Order no. BRD-92410.
- Ellsworth, David Scott. 1991. Variation in leaf structure, nitrogen, and photosynthesis across light gradients in a temperate and tropical forest. University of Wisconsin-Madison, 159 pp. D.A. 52(10):5070-B. Order no. DA9128904.

- Enloe, James Gordon. 1991. Subsistence organization in the Upper Paleolithic: Carcass refitting and food sharing at Pincevent. University of New Mexico, 437 pp. D.A. 52(10):3640-A. Order no. DA9208123.
- Erkkila, Daniel Lee. 1991. Valuation of forest-based nonmarket outputs: A cost-price approach. University of Minnesota, 176 pp. D.A. 52(8):3972-B. Order no. DA9202809.
- Ezzo, Joseph Anthony, Jr. 1991. Dietary change at Grasshopper Pueblo, Arizona: The evidence from bone chemistry analysis. University of Wisconsin-Madison, 411 pp. Supervisor: T. Douglas Price. D.A. 52(11):3979-3980-A. Order no. DA9207559.
- Farah, Mohamed Hussein. 1991. Isolation and identification of pharmacologically active compounds from plants used in Somali traditional medicine. Uppsala Universitet (Sweden), 48 pp. ISBN: 91-554-2700-6. D.A. 53(2):315-C.
- Farias-Sanchez, José Antonio. 1991. Ecology, culture and utilization of the mussel *Brachidontes recurvus* (Refinesque), in the context of an integrated management approach to Boca del Río-Mandinga estuarine system, Veracruz, Mexico. University of Stirling (U.K.), 355 pp. D.A. 52(11):5595-B. Order no. BRD-95291.
- Fiddes, Nick. 1989. Meat: A natural symbol. University of Edinburgh (U.K.), 294 pp. D.A. 52(7):2607-A. Order no. BRD-93862.
- Finch, John David. 1991. Coffee, development, and inequality in the Papua New Guinea highlands. City University of New York, 333 pp. Adviser: Mervyn J. Meggitt. D.A. 52(9):3329-3330-A. Order no. DA9207073.
- Finney, Mark Arnold. 1991. Ecological effects of prescribed and simulated fire on the coast redwood (*Sequoia sempervirens*) (D. Don) Endl.). University of California-Berkeley, 194 pp. D.A. 52(8):3972-B. Order no. DA9203560.
- Foller, Maj-Lis Annette. 1990. Environmental changes and human health: A study of the Shipibo-Conibo in eastern Peru. Goteborgs Universitet (Sweden), 296 pp. D.A. 53(1):61-C.
- Ghuri, Muhammad Jahangir. 1991. Modeling yield of *Dalbergia sissoo* (Shisham) for irrigated plantations of the Punjab, Pakistan. Michigan State University, 133 pp. D.A. 52(6):2846-B. Order no. DA9134123.
- Gnabre, Jean-Noel. 1991. Antiallergic activity of *Tylphora sylvatica*. University of Arizona, 198 pp. D.A. 52(3):1367-B. Order no. DA9123477.
- Goland, Carol Ann. 1991. Cultivating diversity: Field scattering as agricultural risk management in Cuyo Cuyo, Department of Puno, Peru. Volumes I and II. University of Michigan, 585 pp. Chair: Jeffrey R. Parsons. D.A. 52(7):2603-A. Order no. DA9135599.
- Graffam, Gray Clayton. 1990. Raised fields without bureaucracy: An archaeological examination of intensive wetland cultivation in the Pampa Koani Zone, Lake Titicaca, Bolivia. University of Toronto (Canada), 398 pp. ISBN: 0-315-59810-7. Chair: J.N. Ingham. D.A. 52(11):3980-A. Order no. DANN 59810.
- Graham, Margaret Anne. 1991. Dimensions of malnutrition and hunger among children in an Andean community. Michigan State University, 265 pp. Chair: Ann V. Millard. D.A. 53(1):198-A. Order no. DA9216307.

- Green, Terrence Patrick. 1990. Phytochemical studies of selected species of *Piper*. University of Iowa, 161 pp. D.A. 52(3):1436-B. Order no. DA9122061.
- Gumerman, George John. 1991. Subsistence and complex societies: Diet between diverse socio-economic groups at Pacatnamu, Peru. University of California, Los Angeles, 379 pp. Co-Chairs: Christopher Donnan; Timothy Earle. D.A. 52(12):4381-A. Order no. DA9213668.
- Hagos, Mekonen. 1989. Phytochemical and pharmacological investigations of *Acacia tortilis*, a Somalian medicinal plant used to treat asthma. Uppsala Universitet (Sweden), 53 pp. ISBN: 91-554-2461-9. D.A. 53(2):315-316-C.
- Hammett, Julia Elizabeth. 1991. Ecology of sedentary societies without agriculture: Paleoethnobotanical indicators from native California. University of North Carolina at Chapel Hill. 274 pp. Director; Richard A. Yarnell. D.A. 52(10):3640-3641-A. Order no. DA9207953.
- Hammond, David Scott. 1991. The restoration of tropical dry forest after agriculture in Chiapas, Mexico. University of East Anglia (U.K.), 253 pp. D.A. 52(6):2846-B. Order no. BRDX93486.
- Hasler, Andreas Rolf. 1990. Flavonoide aus *Ginkgo biloba* L. und HPLC-Analytik von Flavonoiden in verschiedenen Arzneipflanzen. [Flavonoids of *Ginkgo biloba* L. and HPLC analyses of flavonoids in various medicinal plants.] (Dissertation in German.) Eidgenossische Technische Hochschule Zurich (Switzerland), 306 pp. D.A. 52(4):618-C.
- Higginbotham, James Arnold, III. 1991. Artificial fishponds in Roman Italy during the late Republic and early Empire. University of Michigan, 386 pp. Co-chairs: Elaine K. Gazda; John Griffiths Pedley. D.A. 52(3):975-A. Order no. DA9124020.
- Higuera-Gundy, Antonia. 1991. Antillean vegetational history and paleoclimate reconstructed from the paleolimnological record of Lake Miragoane, Haiti. University of Florida, 110 pp. D.A. 52(10):5070-B. Order no. DA9209022.
- Hogan, Michael. 1991. Land tenure and differentiation in Nuevo Lima, Peru: Articulated development in the high rainforest. University of California, Riverside, 307 pp. Chairperson: Michael Kearney. D.A. 52(12):4384-A. Order no. DA9214731.
- Hudson, Jean Leslee. 1990. Advancing methods in zooarchaeology: An ethnoarchaeological study among the Aka. University of California, Santa Barbara. 381 pp. Chair: Michael Jochim. D.A. 52(5):1795-A. Order no. DA9130092.
- Hueske, Kirby Lyn. 1991. The neurological effects of *Solanum dimidiatum* in mice. Texas A&M University. 128 pp. D.A. 52(9):4624-B. Order no. DA9206511.
- Hui, Yu-hua. 1991. The search for bioactive constituents from *Annona bullata* (Annonaceae). Purdue University. 244 pp. D.A. 52(10):5281-B. Order no. DA9201338.
- Inman, Alastair. 1990. Foraging decisions: The effects of conspecifics and environmental stochasticity. University of Oxford (U.K.), 210 pp. D.A. 52(8):3999-B. Order no. BRD-94143.
- Javed, Nasim. 1991. Hydrologic responses to fuelwood harvest and slash disposal on a pinyon-juniper dominated grassland site in the Gila National Forest, New Mexico. New Mexico State University, 148 pp. D.A. 52(8):3985-B. Order no. DA9201915.

- Jiménez-Osornio, Juan José-María. 1991. Ecological basis of weed management in the chinampa agroecosystem. University of California-Riverside, 167 pp. D.A. 52(12):6142-B. Order no. DA9214736.
- Jones, Andrew Kenneth George. 1991. The fish remains from Freswick Links, Caithness. University of York (U.K.), 396 pp. D.A. 52(7):2604-A. Order no. BRDX93985.
- Jones, Cynthia S. 1990. The developmental basis of leaf shape variation in a wild and a cultivated subspecies of *Cucurbita* (*C. argyrosperma*). University of California-Berkeley, 222 pp. D.A. 52(4):1815-B. Order no. DA9126630.
- Jones, John Glendon. 1991. Pollen evidence of prehistoric forest modification and Maya cultivation in Belize. Texas A&M University, 141 pp. Chairman: Vaughn M. Bryant, Jr. D.A. 53(1):195-A. Order no. DA9216951.
- Juracek, Kyle Elliot. 1991. GIS and expert system approaches to land suitability assessment for alternative crop production. University of Kansas, 280 pp. D.A. 52(11):4044-A. Order no. DA9210065.
- Kellogg, Douglas Carlton. 1991. Prehistoric landscapes, paleoenvironments, and archaeology of western Muscongus Bay, Maine. University of Maine, 341 pp. Adviser: David Sanger. D.A. 53(1):195-A. Order no. DA9218007.
- Kimsey, Mary Buskin. 1991. A spatial analysis of the causes of tropical deforestation. University of Georgia, 203 pp. Director: Vernon Meentemeyer. D.A. 52(9):3389-A. Order no. DA9206963.
- Kiviat, Erik. 1991. Wetland human ecology. The Union Institute, 187 pp. D.A. 52(11):5631-5632-B. Order no. DA9211445.
- Laferrière, Joseph Edward. 1991. Optimal use of ethnobotanical resources by the Mountain Pima of Chihuahua, Mexico. University of Arizona, 266 pp. D.A. 52(7):3537-B. Order no. DA9136850.
- Lamont, Eric E. 1991. Taxonomy of *Eupatorium* Section *Verticillata* (Asteraceae). City University of New York, 217 pp. D.A. 52(9):4551-B. Order no. DA9207091.
- Landon, David Bachenheimer. 1991. Zooarchaeology and urban foodways: A case study from eastern Massachusetts. Volumes I and II. Boston University, 528 pp. Major Professor: Mary C. Beaudry. D.A. 52(3):976-A. Order no. DA9122923.
- Lebo, Cathy Jean. 1991. Anasazi harvests: Agroclimate, harvest variability, and agricultural strategies on prehistoric Black Mesa, northeastern Arizona. Indiana University, 521 pp. Chairperson: Geoffrey W. Conrad. D.A. 52(9):3327-A. Order no. DA9205950.
- Lehtinen, Ari Auskuti. 1991. Northern natures: a study of timber-line conflict in Finland. Helsingin Yliopisto (Finland), 112 pp. D.A. 52(4):524-525-C.
- Lennstrom, Heidi Annette. 1992. Intrasite spatial variability and resource utilization in the prehistoric Peruvian highlands: An exploration of method and theory in paleoethnobotany. University of Minnesota, 441 pp. Adviser: Christine A. Hastorf. D.A. 53(1):196-A. Order no. DA9215985.
- Li, Minggvang. 1991. The ecology of neotropical forest tree seedlings. University of North Dakota, 177 pp. D.A. 52(5):2396-B. Order no. DA9131502.
- Lis, Richard Adam. 1990. A taxonomic revision of *Holidiscus* Maxim. (Spiraeoideae: Rosaceae) based upon numerical analyses of leaf morphological variation.

- University of California-Berkeley, 221 pp. D.A. 52(4):1815-B. Order no. DA9126668.
- Lufumpa, Leyeka Charles. 1991. An economic analysis of agroforestry farming systems in Zambia: Application of risk programming and risk-free modelling techniques. Iowa State University, 287 pp. D.A. 52(8):3972-B. Order no. DA9202374.
- Magee, Pennie Lou. 1990. "The water is our land:" Peasants of the river Tocantins, Brazilian Amazonia. University of Florida, 161 pp. Chair: Marianne Schmink. D.A. 52(3):980-A. Order no. DA9121625.
- Maitima, Joseph Mworira. 1991. Vegetational environments of later Stone Age and early Iron Age cultures in western Kenya. Duke University, 311 pp. D.A. 52(8):4097-B. Order no. DA9202500.
- Mansberger, Joe Robert. 1991. *Ban yatra*: A bio-cultural survey of sacred forests in Kathmandu Valley. University of Hawaii, 343 pp. Chairman: Brian Murton. D.A. 52(5):1858-A. Order no. DA9129689.
- Marean, Curtis William. 1990. Late Quaternary paleoenvironments and faunal exploitation in East Africa. University of California-Berkeley, 518 pp. D.A. 52(4):1404-A. Order no. DA9126689.
- McCartney, Peter H. 1989. Paleoeskimo subsistence and settlement in the High Arctic. University of Calgary (Canada), 347 pp. ISBN: 0-315-61748-9. Supervisor: James W. Helmer. D.A. 52(10):3641-A. Order no. DANN61748.
- Mena, Manuel Francisco. 1991. Prehistoric resource space and settlement at the Rio Ibanez Valley (central Patagonian Andes). University of California, Los Angeles, 195 pp. Chair: Clement Meighan. D.A. 52(7):2604-A. Order no. DA9200909.
- Menegoni, Lorenza A. 1990. Tuberculosis and health care in Highland Chiapas, Mexico: An ethnographic study. New School for Social Research, 365 pp. D.A. 52(3):1379-B. Order no. DA9123623.
- Menelaou, Marios Andrea. 1990. Structural and biosynthetic studies of natural products of the Asteraceae and Lamiaceae (*Solidago pauciflosculosa* and *Calamintha ashei*). Louisiana State University and Agricultural and Mechanical College, 289 pp. D.A. 52(3):1441-1442-B. Order no. DA9123221.
- Merrick, Laura Channing. 1991. Systematics, evolution, and ethnobotany of a domesticated squash, *Cucurbita argyrosperma*. Cornell University, 340 pp. D.A. 52(9):4552-B. Order no. DA9204093.
- Mohamad, Aminuddin Bin. 1990. Ecology and silviculture of *Calamus manan* in peninsular Malaysia. University College of North Wales, Bangor (U.K.), 276 pp. D.A. 52(11):5606-B. Order no. BRDX95205.
- Morgado, Luiz Balbino. 1991. Nitrogen relationships in maize-beans intercropping. University of East Anglia (U.K.), 262 pp. D.A. 53(1):37-B. Order no. BRDX95610.
- Morgan, R. Grace. 1991. Beaver ecology / beaver mythology. University of Alberta (Canada), 95 pp. ISBN: 0-315-66754-0. Supervisors: H.T. Lewis; R. Gruhn. D.A. 53(2):543-A. Order no. DANN66754.
- Naaranlahti, Toivo. 1991. Isolation and analysis of *Catharanthus* alkaloids with special reference to 3', 4'-anhydrovinblastine biosynthesis. Kuopion Yliopisto (Finland), 63 pp. ISBN: 951-780-778-3. D.A. 53(2):340-C.



- Natadecha, Poranee. 1991. Nature and culture in Thailand: The implementation of cultural ecology in environmental education through the application of behavioral sociology. University of Hawaii, 197 pp. Chairperson: Royal T. Fruehling. D.A. 52(5):1798-1799-A. Order no. DA9129697.
- Newman, Margaret Evelyn. 1990. The hidden evidence from Hidden Cave, Nevada: An application of immunological techniques to the analysis of archaeological materials. University of Toronto (Canada), 168 pp. ISBN: 0-315-65865-7. Supervisors: M.A. Latta. D.A. 53(2):540-A. Order no. DANN 65865.
- Newnham, Rewi Munro. 1991. Late Quaternary palynological investigations into the history of vegetation and climate in northern New Zealand. University of Auckland (New Zealand), 374 pp. D.A. 52(8):4098-B. Order no. DA9135932.
- Nicholson, Rebecca Anne. 1991. An investigation into variability within archaeologically recovered assemblages of faunal remains: The influence of pre-depositional taphonomic processes. University of York (U.K.), 535 pp. D.A. 52(12):4388-4389-A. Order no. BRDX95528.
- Noblick, Larry Ronald. 1991. The Indigenous palms of the state of Bahia, Brazil. University of Illinois at Chicago, 541 pp. D.A. 52(8):3990-B. Order no. DA 9203385.
- Norr, Lynette Caryl. 1991. Nutritional consequences of prehistoric subsistence strategies in lower Central America. University of Illinois at Urbana-Champaign, 332 pp. Adviser: David L. Grove. D.A. 52(3):976-A. Order no. DA 9124465.
- Nshimo, Charles Musa. 1991. Phytochemical and biological studies on *Muntingia calabura* L. University of Illinois-Chicago, Health Sciences Center, 139 pp. D.A. 52(5):2518-B. Order no. DA9132108.
- Old, Richard Robert. 1990. W.E.E.D.S.: Western Expert Educational Diagnostic System: A computer aided expert system for plant identification. University of Idaho, 109 pp. D.A. 52(7):3351-B. Order no. DA9135960.
- Omar, Hishamuddin B. 1989. An assessment of potential of red seaweed *Palmaria palmata* for mariculture in the Irish Sea. University of Liverpool (U.K.), 183 pp. D.A. 52(11):5609-B. Order no. BRDX95218.
- Ouendeba, Botorou. 1991. Diversity, combining ability, and heterotic patterns among African pearl millet landraces. Purdue University, 149 pp. D.A. 53(1):7-B. Order no. DA9215639.
- Parfitt, Bruce D. 1991. Biosystematics of the *Opuntia polyacantha* complex (Cactaceae) of western North America. Arizona State University, 123 pp. D.A. 52(6):2862-B. Order no. DA9134882.
- Payne, Lori Denise. 1991. The alkaloids of *Erythrina*: clonal evaluation and metabolic fate. Louisiana State University and Agricultural and Mechanical College, 175 pp. D.A. 53(2):816-B. Order no. DA9219568.
- Phillips, Mary T. 1991. Constructing laboratory animals: An ethnographic study in the sociology of science. New York University, 418 pp. Adviser: Irwin W. Goffman. D.A. 52(3):1082-1083-A. Order no. DA9124755.
- Pongprayoon, Ubonwan. 1990. Pharmacognostic studies on the Thai medicinal plant *Ipomoea pes-caprae* (L.) R. Br. (Pak Bung Ta Lae). Uppsala Universitet (Sweden), 43 pp. ISBN: 91-554-2656-5. D.A. 53(2):317-C.

- Price, Norman William. 1990. The tropical mixed garden in Costa Rica: A potential focus for agroforestry research? University of British Columbia (Canada), 423 pp. ISBN: 0-315-59529-9. D.A. 52(10):5071-5072-B. Order no. DANN 59529.
- Ragone, Carol Diane. 1991. Collection, establishment, and evaluation of a germplasm collection of Pacific Island breadfruit. University of Hawaii, 204 pp. D.A. 52(12):6162-B. Order no. DA9215034.
- Rakotonomenjanahary, Rivo Andriavololonavalona. 1991. *Apis mellifica* et son utilisation à doses homeopathiques. [*Apis mellifica* and its use in homeopathic doses.] (Dissertation and abstract in French.) Université de Dijon (France), 79 pp. D.A. 52(3):435-C.
- Rancy, Alceu. 1991. Pleistocene mammals and paleoecology of the western Amazon. University of Florida, 164 pp. D.A. 52(8):4097-B. Order no. DA9202046.
- Razzouk, Talal Ahmad. 1990. A study of the nutritional adoption of innovations by Syrian farmers. University of Nottingham (U.K.), 475 pp. D.A. 52(9):4525-B. Order no. BRD-94395.
- Rice, Robert Armstrong. 1990. Transforming agriculture: The case of coffee leaf rust and coffee renovation in southern Nicaragua. University of California, Berkeley, 349 pp. D.A. 52(4):1474-1475-A. Order no. DA9126749.
- Rosaldo-May, Francisco Javier. 1991. Ecological role of wild mustard (*Brassica kabera* (DC.) L.C. Wheeler) in the management of soil-pathogenic fungi and nematodes in a corn agroecosystem. University of California-Santa Cruz, 155 pp. D.A. 52(12):6194-B. Order no. DA9206671.
- Rossen, Jack. 1991. Ecotones and low-risk intensification: The Middle Preceramic habitation of Nanchoc, northern Peru. University of Kentucky, 721 pp. Director: Tom D. Dillehay. D.A. 52(3):977-A. Order no. DA9124649.
- Russ, Jon Lester. 1991. Radiocarbon dating of prehistoric rock paintings. Texas A&M University, 231 pp. D.A. 53(1):239-B. Order no. DA9217015.
- Sarpaki, Analya Anastasia. 1987. The paleoethnobotany of the West House, Akrotiri, Thera: A case study. Volumes I and II. University of Sheffield (U.K.), 468 pp. D.A. 52(9):3327-A. Order no. BRDX94401.
- Saunders, Richard M.K. 1990. The systematics of the aquatic fern genus *Azolla* Lam., with particular reference to section *Rhizosperma* (Mey.) Mett. Council for National Academic Awards (U.K.), 289 pp. D.A. 52(5):2385-B. Order no. BRDX93188.
- Schmerzler, Seth Martin. 1991. Attitudes toward environmental conservation in the Kingdom of Tonga: Observed behavior and implications for environmental education. University of California, Santa Barbara, 219 pp. D.A. 52(10):3644-A. Order no. DA9208369.
- Schweithelm, James. 1991. Rapid Watershed Assessment for Outer Island Indonesia with a Kalimantan case study. University of Hawaii, 282 pp. Chairperson: Brian J. Murton. D.A. 52(9):3390-A. Order no. DA9205878.
- Scott, Elizabeth May. 1991. "Such diet, as befitted his station as clerk:" The archaeology of subsistence and cultural diversity at Fort Michilimackinac, 1761-1781. University of Minnesota, 332 pp. Adviser: Janet D. Spector. D.A. 52(4):1404-A. Order no. DA9127754.

- Sharma, Uday Raj. 1991. Park-people interactions in Royal Chitwan National Park, Nepal. University of Arizona, 275 pp. D.A. 52(10):5039-B. Order no. DA9210308.
- Shaw, Leslie Carol. 1991. The articulation of social inequality and faunal resource use in the Preclassic community of Colha, northern Belize. University of Massachusetts, 424 pp. Director: H. Martin Wobst. D.A. 52(6):2189-A. Order no. DA9132913.
- Short, Kevin MacEwen. 1991. Resource management and socioeconomic development in the Japanese coastal fishing industry. Stanford University, 334 pp. D.A. 52(9):3332-A. Order no. DA9206852.
- Silver, Annette Louise. 1991. The Abbott Interaction Sphere. A consideration of the Middle Woodland period in coastal New York and a proposal for a Middle Woodland exchange system. New York University, 478 pp. Adviser: Howard D. Winters. D.A. 52(3):977-A. Order no. DA9124764.
- Smith, Greg Charles. 1991. Heard it through the grapevine: Andean and European contributions to Spanish Colonial culture and viticulture in Moquegua, Peru. University of Florida, 384 pp. Chair: Prudence M. Rice. D.A. 53(2):540-A. Order no. DA9216244.
- Snider, Mary Carol. 1991. Les métaphores animales dans les atlas linguistiques et ethnographiques de la France. (Dissertation in French; abstract in English.) Brown University, 232 pp. D.A. 52(9):3268-A. Order no. DA9204958.
- Sobolik, Kristin Dee. 1991. Paleonutrition of the Lower Pecos Region of the Chihuahuan Desert. Texas A&M University, 322 pp. Co-Chairs: Vaughn M. Bryant, Jr.; D. Gentry Steele. D.A. 52(9):3327-A. Order no. DA9206563.
- Soedjito, Herwasono. 1990. Root systems of successional and old-growth forest species and its role on nutrient dynamics within a tropical rainforest in Indonesia. Rutgers The State University of New Jersey, 184 pp. D.A. 52(3):1199-B. Order no. DA9123314.
- Song, Cheunsoon Ahn. 1991. Variations in fiber morphology of prehistoric textiles from the Seip Group of Mounds: A model for explanation. Ohio State University, 325 pp. Co-Advisers: Lucy R. Sibley; Kathryn A. Jakes. D.A. 52(5):1795-A. Order no. DA9130561.
- Thorne, Aida. 1990. Patterns of naming in plant and animal names in Afrikaans. University of Pretoria (South Africa). D.A. 52(4):1313-A.
- Uhr, David Vaughn. 1991. Adaptation of tropical maize to temperate zones. North Carolina State University, 152 pp. D.A. 52(8):3985-B. Order no. DA9203177.
- Van West, Carla Rebecca. 1990. Modeling prehistoric climatic variability and agricultural production in southwestern Colorado: A GIS approach. Washington State University, 123 pp. Chair: Timothy A. Kohler. D.A. 52(5):1796-A. Order no. DA9131108.
- Vincent, Robert Montgomery. 1991. Biological diversity and Third World development: A study of the transformation of an ecological concept into natural resource policy. Oregon State University, 169 pp. D.A. 52(5):1859-A. Order no. DA9130925.
- Von Gernet, Alexander D. 1988. The transculturation of the Amerindian pipe/tobacco/smoking complex and its impact on the intellectual boundaries

- between "savagery" and "civilization," 1535-1935. McGill University (Canada), 780 pp. ISBN: 0-315-64092-8. D.A. 53(1):203-A. Order no. DANN 64092.
- Wahyuono, Sabagus. 1991. Potential anti-infective agents isolated from *Artemisia pacifica* Nutt. and *Guardiola platphylla* Gray (fam. Asteraceae). University of Arizona, 170 pp. D.A. 52(3):1376-B. Order no. DA9123159.
- Watlington-Linares, Francisco. 1990. Adaptive viticulture in the Caribbean basin. University of Florida, 195 pp. Chairman: César Caviedes. D.A. 52(3):1035-A. Order no. DA9121679.
- Weyer, Edward Moffat, Jr. 1930. [sic] The Eskimos: A study in adaptation to environment. Yale University, 497 pp. D.A. 52(3):982-A. Order no. DA 9115918.
- Wiener, John Dixon. 1990. A social science basis for prescription of land tenure for Alaska Natives. University of Colorado at Boulder, 296 pp. Director: Risa I. Palm. D.A. 52(3):1035-A. Order no. DA9122658.
- Williams, David Edison. 1991. Peanuts and peanut farmers of the Rio Beni: Traditional crop genetic resource management in the Bolivian Amazon. City University of New York, 190 pp. D.A. 52(9):4554-B. Order no. DA9207138.
- Wilson, Curtis James. 1991. An indigenous nineteenth century settlement/subsistence system in the area of Demarcation Bay, Alaska. State University of New York at Binghamton, 401 pp. D.A. 52(4):1404-1405-A. Order no. DA9127180.
- Woo, David. 1991. A feasibility study of using Landsat MSS data to map tropical rice fields in Ifugao, Philippines. University of California, Santa Barbara, 221 pp. Chairman: John E. Estes. D.A. 52(8):3031-A. Order no. DA9204623.
- Zhang, Ke. 1991. Building an expert system based on a geographic information system: An example of landuse management, Inner Mongolia. Texas A&M University, 168 pp. Chair: John R. Giardino. D.A. 53(1):260-A. Order no. DA9217058.

## BOOK REVIEW

**Psychedelics Encyclopedia.** Peter Stafford. Berkeley, CA: Ronin Publishing, Inc. (Box 1035, Berkeley, CA 94701), 1992. (Third edition). Pp. iii, 91, and 420. \$24.95. ISBN 0-914171-51-8.

In this significantly expanded third edition of *Psychedelics Encyclopedia*, Peter Stafford has offered much additional and interesting material. The earlier editions were excellent sources of information much of which were difficult to find elsewhere, but this third edition provides an incredible amount of new material as well as what the earlier editions offered. Among the additions may be cited an update of scientific research, particularly chemical research, a discussion of changing social and political considerations concerning psychoactive substances, an obituary of leaders in the study of psychoactive plants and materials and other aspects bringing the story up-to-date.